# EXHIBITION HIGHLIGHTS

## DSEI 2017, Booth S2-320

Elbit Systems' booth comprises a range of solutions from the Company's extensive product line:

- **SPEAR MK2**

  Mounted on a light vehicle

  120mm autonomous soft recoil mortar system for high mobility platforms The fully autonomous, vehicle-mounted 120mm soft recoil mortar system delivers effective fire support by combining the flexibility and accuracy of mortar fire with exceptional tactical mobility. The mortar is a derivative of the combat-proven soft recoil mortar which is muzzle loaded and turntable-mounted and is being used extensively by the US Army, NATO and others.

- **120mm Guided Mortar**

  **Precision-guided mortar munitions; battle-proven against a variety of targets**

  With both GPS and laser guidance capabilities, Elbit Systems' guided mortars offer effective firepower against a range of targets, including infantry, armored vehicles and structures. Featuring a maximum range of 10km, the cost-effective munitions are fitted on existing bombs and can be fully integrated with existing 120mm mortar systems.

- **IronVision™**

  **'See-Through Armor' Technology for Tanks and Armored Vehicles**

  By applying Elbit Systems' legacy 'head-up, eyes-out' aerial technology to the closed hatched armored vehicle environment, IronVision generates an image that enables the crew to 'see through' armored shields, helping them overcome inherent visibility limitations, while improving mission efficiency and safety. The sensor transmits real-time, zero latency, high-resolution video to the Helmet-Mounted Displays (HMDs), providing the crew with a natural, conformal view of the vehicle surroundings. Pre-loaded terrain and obstacle information, combined with smart, intuitive symbology, provide a unified, intuitive image of the world outside, relieving the crew of the mental load of having to interpret data from multiple sources, while improving situational awareness.

- **TORC2H™ System**

  **All-in-one C4ISR system**

  TORC2H covers all army branches and echelons, enabling universal situational awareness as well as in-depth collaborative mission planning and management based on real-time information and an always-updated common operational picture. TORC2H is fully deployed and operational in major military organizations around the world.

- **Weapon-Integrated Battle Management System (WinBMS™)**

  **Networked integrated battle management solution**

  WinBMS enhances the connectivity and coordination of maneuvering forces at the tactical level, increasing survivability. Based on integrated sensor and weapon systems, WinBMS provides a fullscale solution both at the task force level and within the armored combat platform, thereby increasing the combat effectiveness of the combined force within the dynamic battlefield. WinBMS can be implemented on both modern and legacy platforms.

- **ELSAT-2100**

**Low-profile, high-throughput military Tri-Band SOTM antenna system**

The ELSAT-2100 is a highly ruggedized, Tri-Band, advanced military SATCOM-on-the-Move (SOTM) antenna system. Whether in Ka, Ku or X band, the ELSAT-2100 offers fast satellite acquisition and high tracking performance, delivering uninterrupted triple play communications for vehicles in motion. ELSAT-2100 meets the modern military requirements and standards – while delivering increased reliability and ease of use. The ELSAT-2100 is modem-independent and based on Elbit Systems' field-proven next-generation "passive waveguide array planar panel" antenna technology, enabling best-in-class RF performance for any given size. ELSAT-2100 has ground, aeronautical and maritime versions supporting various platforms.

- **Soldier System - DOMINATOR™**

**Integrated warrior combat suite to enhance the effectiveness of the dismounted soldier**

The DOMINATOR suite of solutions –Light, Basic and Advanced – are integrated infantry combat systems that enable full situational awareness across all military echelons.

Comprised of a series of integrated hardware components, C4I applications and an advanced Load Carriage System developed inhouse, DOMINATOR dramatically shortens the sensor-to-shooter loop, supporting battlefield superiority at all times.

- **MCTR-7200**

**Family of tactical Software-Defined Radios offering superior operational versatility for the mounted and dismounted soldier**

This family of tactical software-defined radios features a uniquely designed software communications architecture, an intuitive user interface and multiple configuration options, including vehicular, handheld and dual configurations. The multi-use, single platform contains powerful programmable hardware that offers reliable triple play services including voice, video and data simultaneously over a single narrowband tactical 25Hz channel. As a part of the E-LynX™ family, the MCTR-7200 also offers high-speed data over wideband channels, providing a significant operational edge on the battlefield.

- **PNR-1000**

  **Lightweight personal network radio with automatic voice and data relay**

  Part of the E-LynX™ family, the SDR PNR-1000 IP radio supports up to 64-member ad-hoc networking including full-duplex voice conferencing, data and video simultaneously. As the newest generation of PNR at the full NATO RF spectrum 225-512MHz, the PNR-1000 is the lightest of its kind in the market. The PNR-1000's unique technology maximizes communications dependability and range while minimizing the network's vulnerability.

- **Artillery Systems - Combat NG**

  **Fully-integrated modular artillery solution**

  The latest generation of C4ISR systems for field artillery, Combat NG establishes an autonomous artillery array, achieving an effective fire support process. Combat and field-proven around the world, Combat NG manages all aspects of artillery operation, from the platform to the brigade level. The solution enables a short sensor-to-shooter loop, thereby increasing the combat effectiveness of the combined force.

- **Enhanced Tactical Computers (ETC)**

  **A series of rugged, battle-proven, high-performance tactical computers**

  Elbit Systems' series of Enhanced Tactical Computers provide innovative command and control capabilities and tactical data dissemination for multiple operational scenarios and to a variety of forces and platforms - infantry, Special Forces, tanks, artillery, APCs, wheeled and tracked combat vehicles. Highly ruggedized and geared for operation in harsh conditions, the ETC family offers a range of modular configurations and display sizes to fit customer requirements, from 10.4" tablet design, to split display and computer unit configuration.

- **E-LynX™ Family of Mobile Tactical Communications Solutions**

  The E-LynX family provides highly advanced mobile ad-hoc networking (MANET) capabilities to a variety of platforms over any terrain type and are already operational with numerous customers worldwide.

- **GRX-8000**

  **ECCM, high capacity and frequency-hopping radio relay system for interference-free communications**

  GRX-8000 is the latest generation NATO Band IV with Dual Mode – High Capacity (HC) and Frequency Hopping (FH) – line-of-sight broadband radio relay system. Designed to meet present and future tactical communications requirements, the battle-proven GRX-8000 supports the latest IP and legacy communications protocols. With jamming resistant ECCM, the software-defined radio relay system enables interference-free communications across the battlefield.

- **IRCS**

  **Field-proven Integrated Radio Communications System**

  IRCS enables all echelons – from high-ranking commanders down to the individual soldier in the field – to communicate directly with anyone in the military network and beyond to the commercial and paramilitary networks. The system facilitates full interoperability across a broad range of radios and communications devices including VHF, HF and multichannel radios, LAN, WAN, PABX, satellite and cellular networks.

- **PRC-434G/CS**

  **"All-In-One" Personal Survival Radio (PSR)**

  Handheld and lightweight, the transceiver is capable of responding to interrogations transmitted by the ARS-7000 Airborne Locator System (ALS). An embedded GPS receiver provides global geolocation capabilities. Add-on circuitry provides for transmission of Cospas-Sarsat data messages, enabling the PRC-434G/CS to perform as a dual-function rescue beacon capable of transmitting data messages at 406MHz, effectively substituting for an Emergency Locator Transmitter (ELT). The information transmitted and received is fully secured with an individual identification code assigned to each user.

- PRC-648 PLB

  Personal Locator Beacon (PLB)

  The beacon is an advanced Over-the-Horizon Cospas-Sarsat locator for non-combat search and rescue (SAR) missions. Carried in the pilot's emergency vest, the PRC-648 provides ultra-reliable performance in severe environments. An internal G-Switch automatically activates the beacon upon bailout, while a lanyard-actuated switch provides for additional mechanical and manual activation options. This uniquely feature-rich personal locator beacon has an integral voice transceiver offering multi-channel VHF/UHF resources. An embedded GPS receiver provides for automatic position reporting for geolocation with an accuracy of less than 10m. The triple beacon enables transmitting distress signals over all the internationally recognized emergency frequencies.

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- SMART Suite

  End-to-end tactical C4ISR for dismounted forces and vehicles

  The SMART family of products enables mounted and dismounted forces to maintain the flow of tactical multimedia and data information over heterogeneous tactical networks (legacy, non-IP, IP, etc.), providing the complete application platform for any C4ISR requirement. Utilizing both standard and TIGER™ routing and data dissemination protocols, the routers generate a unified "Tactical Internet" for seamless communications across the entire chain of command.

- Warning Systems

  Fully-customizable; detecting laser and radar-guided threats

  Elbit Systems' Laser Warning System (E-LAWS) and Threat Detection System (TDS) accurately detect, categorize and pinpoint laser sources such as rangefinders, designators, beam riders, infrared illuminators and trainers. In addition to laser sources, the Multi-Threat Detection System (MTDS) detects, categorizes and pinpoints radar/RF sources.
  An essential component of the vehicle's defensive capabilities, the systems feature audio and visual warnings, high detection probability, and a low false-alarm rate.

- Seagull™
  **Will be on display by model 1:30 scale**

  A multi-mission, 12-meter autonomous Unmanned Surface Vessel (USV) system, Seagull is equipped to perform versatile missions with modular payload suites such as dipping sonar and torpedoes to detect and engage submarines, towed side scan sonar/ SAS and mine identification and neutralization.

- Skylark™ 3
  **Field Deployed Tactical ISTAR UAS**

  Skylark 3 is a tactical mini- Unmanned Aircraft System (UAS) optimized for either dismounted or vehicle-based operation, delivering organic airborne Intelligence, Surveillance, Target Acquisition and Reconnaissance (ISTAR) capabilities to the division, brigade and battalion levels. Skylark 3 enables performance of ongoing covert operations, providing real-time intelligence day and night. Skylark 3's high resolution, gimbaled and stabilized dual EO/IR payload facilitates a wide-range of applications including over the hill intelligence, force and convoy protection, strategic infrastructure protection, border patrol and security operations.

- Skylark™ I-LEX
  A next generation of the legacy Skylark I-LE mini-UAS, this man-portable electric propelled UAS is best suited for organic "beyond the next hill" reconnaissance, counter insurgency and force protection missions, as well as civil applications including perimeter security, border and coastal surveillance, anti-terror and a variety of law enforcement missions.

- **AQUA MARINE™**
  Will be on display by graphics

  An integrated naval Radar Electronic Support Measures (RESM), Counter Electronic Support Measures (CESM), Laser Warning system (LWS) and Electronic Counter Measures (ECM) Suite
  Elbit Systems EW & SIGINT-Elisra's Aqua Marine is a digital, modular and combat-proven family of advanced naval Electronic Warfare (EW) suites designed to operate in littoral and blue waters environments. These systems are based on extensive field experience of over four decades of success with customers around the globe, including as the prime supplier to the Israeli Navy. Fully integratable and interoperable, these 5th generation lightweight and small-footprint systems provide today's most critical capabilities - situation awareness, electronic attack, ship self-defense and electronic intelligence.

- **TIMNEX III**
  Will be on display by graphics

  An advanced Intelligence Collection System (ICS) for naval operation, this Signal Intelligence (SIGINT) system integrates Electronic Support Measures (ESM), Electronic Intelligence (ELINT) and Communications Intelligence (COMINT) enhanced capabilities as well as advanced digital processing to cope with the complex, versatile modern electromagnetic environment. Digital receivers and fast processing support fast and efficient detection, identification, bearing information and tracking of the electromagnetic emissions of the entire frequency spectrum. TIMNEX III can be configured as a stand-alone system or can be fully integrated with the platform Combat Management System (CMS), using a configurable number of operators, according to the mission.

- **Integrated Electronic Warfare System (IEWS)**

  Will be on display by graphics

  Highly advanced, fully integrated ESM/ELINT, COMINT, ECM, COMJAM and Command and Control system for all operational EW demands, the IEWS solution enables passive and active intelligence, including collection, processing and exploitation, EW countermeasures and command and control. An all-in-one comprehensive, integratable and customizable system, it provides decision-makers with a complete, real-time SIGINT and EW picture of the arena and powerfully responds to existing and emerging threats from airborne, naval and ground platforms, enabling real-time situational awareness and simultaneous operation of elements for Electronic Support (ES) and Electronic Attack (EA).

- **Re-Drone**

  1:1 size

  An advanced anti-drone protection system designed to detect, identify, track and neutralize different types of drones at a designated airspacet, the system is capable of separating a drone's signals from its operator's remote control signals, as well as pinpointing both the drone and the operator's directions.

- **ALL-in-SMALL™ Unified Airborne Self-Protection Suite**

  Will be on display by graphics

  This extremely small and lightweight integrated Electronic Warfare (EW) suite in a single Line Replaceable Unit (LRU) is comprised of: EW Controller (EWC), digital Radar Warning Receiver (RWR), IR Missile Warning System (MWS), advanced Laser Warning System (LWS) and Chaff/Flare Dispensing System (CFDS). It has a modular open architecture with multiple interface abilities and can be effectively integrated with Directional Infrared Counter Measures (DIRCM) systems and an Electronic Counter Measures (ECM) RF jammer. The suite includes threat geo-location and net-centric capabilities.

- **PAWS Family**

  Will be on display by graphics

  **A Combat Proven Cross-Platform Family of Infra Red (IR) Passive Airborne Warning Systems (PAWS)**

  A comprehensive self-protection solution, PAWS provides effective protection for all airborne platform-types against the most challenging modern and future threats. It supports expanded capabilities such as radar warning and laser warning, provides threat information to other EW and/or avionic systems for centralized display and management and significantly enhances an airborne platform's survivability and safety. It detects, tracks and identifies incoming missiles, alerts and initiates timely flare dispensing and precisely cues Directional IR Countermeasures (DIRCM) towards an approaching missile. PAWS is installed in a distributed configuration over the aircraft's skin, in a dedicated pod/bay, or in a pylon, and operates either as a stand-alone, self-contained system, or as part of a complete EW suite.

- **Light SPEAR™**

  Will be on display by graphics

  **A Unique Electronic Attack (EA) and Self-Protection System for Unmanned Systems (UAS)**

  A compact, extremely lightweight ESM & ECM self-protection jamming system for UAS, Light SPEAR improves UAS survivability and responds to the growing need to operate and collect accurate intelligence in highly hostile environments. It is based on multiple Digital Radio Frequency Modulator (DRFM) channels working in parallel and covering a wide spectrum. The system allows easy integration with an array of transmitters and platforms, and its low Size, Weight and Power (SWaP) consumption makes it an ideal EW system for multiple operational platforms.

- **Air Keeper**

  Will be on display by graphics

  **A Unified Airborne Intelligence and Electronic Attack (EA) Solution for Mission Aircraft**

  Air Keeper seamlessly integrates a wide range of intelligence gathering and EW capabilities, enabling powerful control over the electromagnetic spectrum. Combining operational elements – ESM/ELINT, Electronic Countermeasures (ECM), COMINT, Communications Jamming (COMJAM), and Command & Control (C2) – all operated and managed by a single entity onboard a platform, it provides mission commanders with a complete, real-time, electronic picture of the arena, while targeting communications, radar and other assets to reduce the effectiveness of enemy radar and communications systems. It allows conversion of any existing cargo, transport or passenger aircraft into a strategic and tactical special mission (such as intelligence gathering and EA) aircraft, and can be integrated with existing self-protection solutions onboard the platform.

- **Brightnite™**
  Virtual reality demonstration

  To convert any dark night into the "military pilots' best friend", Elbit Systems presents Brightnite, an affordable non-gimbaled uncooled FLIR sensor, that supports operational flights any night, all night by fusing a real-time video from a multi-spectral sensor, enhanced by 3D flight and mission conformal symbology. The system displays high resolution panoramic imagery to multiple pilots and crew members simultaneously on their Helmet Display and Tracking System (HDTS) regardless of visibility conditions, allowing them to successfully perform missions in more than 90% of the nights.

- **Ground Forces Training Systems**

  Elbit Systems' comprehensive and proven Ground forces training and simulation solutions include a wide range of solutions for personal crew and formation training in combined arms and joint environments: Land Platforms and Weapon Operators training – gunnery, driving, embedded and appended solutions; Tactical and Operational training – Battle Group and HQ training; Combat Support training – FO, JTAC, UAV and HLS and Special Forces training – Live and virtual.

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